Applicant

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Serial No.

09/649,431

Filed

August 25, 2000

## b) Amendments to the Specification:

On page 11, after line 25, please and the following two paragraphs:

The term "ring-like shaped cavity" as used herein refers to any type of ring-like shaped cavities, which allows to create a ring vortex flow without substantial decreasing of effect of the invention that is high output of low-molecular olefins through suppressing secondary reactions by instant heating hydrocarbons feed to pyrolysis temperature.

The ring-like shaped cavity may be presented in the form of any toroidal or toroid-like cavity. One example of a toroid-like cavity is shown in Fig. 3. It can be seen that the toroid-like cavity has two semicavities, each communicating with the other. If desired, the toroid-like cavity may have a number of such partial cavities, the envelope line of the toroid-like cavity approaching to ideal toroidal shape.